PSP'd Box #9-4-7

ChemRisk/Shonka Research Associates, Inc., Document Request Form

Box 4 #2934

(This section to be completed by subcontractor requesting document)

J. Lamb / 1034A

Requestor — Document Center (is requested to provide the following document)

Date of request ~~6/14/96~~ 6/28/96 Expected receipt of document ~~7/14/96~~ 7/14/96

Document number _____ Date of document 1954-1958

Title and author (if document is unnumbered)

Radioactivity Analysis Report WOC Daily

(This section to be completed by Document Center)

Date request received 7/1/96

Date submitted to ADC 7/11/96

Date submitted to HSA Coordinator 7/1/96

(This section to be completed by HSA Coordinator)

Date submitted to CICO 7/11/96

Date received from CICO 7/16/96

Date submitted to ChemRisk/Shonka and DOE 8/1/96

(This section to be completed by ChemRisk/Shonka Research Associates, Inc.)

Date document received _____

Signature _____

#2934

RADIOACTIVITY ANAYSIS REPORT
(White Oak Creek Daily)
(1954 - 1958)

Carbide and Carbon Chemicals Corporation Operating Contractor for the U.S. Atomic Energy Commission.

This document has been approved for release to the public by: [signature] 7/16/96
Technical Information Officer, Oak Ridge K-25 Site
Date

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 1-16-59
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-273	1/5/59	7115 ±	Per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn -2-

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 1-8-59
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-272	12/23/58	21,460 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 12-23-58
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-271	12/15/58	14,642±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A. R. Lyon -4-
by L. S. Smith

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 12-4-58
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-270	11/24/58	8894 ±	Per 100 ml.
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A. L. Flynn

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 11-20-58
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-269	±	13540 ±	Date of sample not indicated on sample bottle by ORNL — Abn has no record to indicate date sampled — N.B. Schmitz log indicates period between 11-1-58 and 11-20-58.
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 10-24-58
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-268	9/26/58 ±	8957 ±	Per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 9-30-58
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-267	9/2±/5r	12,489±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A L Flynn

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 9-12-58
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-266	8/28/58	12,672±	Per 100 ml.
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A L Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 8-29-58
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-265	±	12,572	per 100 ml.
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

-10-

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 8-5-58
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-264	7/34/58	23,033±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A. R. Thorn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 7-21-58
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-263	±	50,663±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn 8749

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 7-8-58
Type of Sample Water

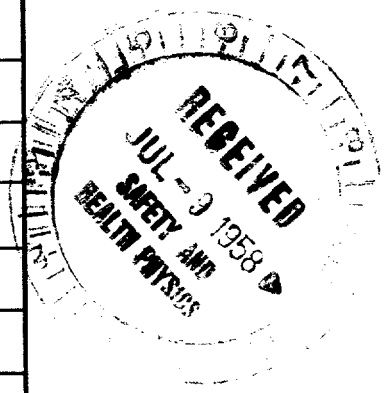
TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-262	±	23,483	per 100 ml.
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.



APPROVED: A R Flynn

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 6-11-58
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-261	±	12,527±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A. R. Lynn
by L. L. Truett

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 5-16-58
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-260	5'1 ± 2.7	8578 ±	Per 100 ml.
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 5-13-58
Type of Sample Water

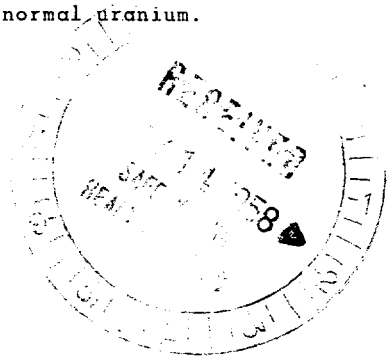
TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-259	[illegible]	4265 ±	per 100 ml.
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.



APPROVED: A R Flynn -16-

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114
Issued 4-25-58
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-258	±	11,736 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

RECEIVED
APR 28 1958

APPROVED: A. R. Flynn

WCX-1184 (2-52) K-25 NRC

obc
Phys
file

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 4-18-58
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-257	±	12,672±	Per 100 ml
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

4/18/58

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

-18-

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 4-8-58
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-256	±	6639 ±	Per 100 ml.
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

-19-

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 3-27-58
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-255	±	9,562±	Per 100 ml.
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

-20-

WCX-1184 (2-52) K-25 NRC

Hull
Flynn
File

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 3-11-58
Type of Sample Water

TO: Mr. Becher

DATE	Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
3/3/58	HPK-25-254	±	5114 ±	per 100 ml.
		±	±	
		±	±	
		±	±	
		±	±	
		±	±	
		±	±	
		±	±	
		±	±	
		±	±	
		±	±	
		±	±	
		±	±	
		±	±	
		±	±	
		±	±	
		±	±	
		±	±	
		±	±	
		±	±	
		±	±	
		±	±	
		±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

-21-

WCX-1184 (2-52) K-25 NRC

Hill SH
~~Chem~~
File

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 2-20-58
Type of Sample Water

TO: Mr. Becher

Date

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
2/13/58 HPK-25-253	±	4876 ±	per 100 ml.
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 2-6-58
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-252	±	5485 ±	Per 100 ml.
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

~~Flee 24~~
~~Flynn~~
File

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 1-31-58
Type of Sample Water

TO: Mr. Becher

Cole
1/27/58

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-251	±	9054 ±	Per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

-24-

APPROVED: AR Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. [illegible]-B-114, BC
Issued [illegible]
Type of Sample Water

TO: Mr. Becher

Date 7-58

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
EPI-25-250	±	5420 ±	Per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A. R. Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. T-1004-3-124, [illegible]
Issued 2-7-52
Type of Sample [illegible]ber

TO: Mr. Decher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-240	±	4539 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

-26-

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 12-27-57
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-248	±	8271 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn -27-

WCX-1184 (2-52) K-25 NRC

Hal GH
Rhyne
File

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 12-20-57
Type of Sample Water

TO: Mr. Becher

Dec. 3, 1957

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-247	±	7062 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: Al Flynn

WCX-1184 (2-52) K-25 NRC

~~Hoit Gill~~
~~Flynn~~
File

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 11-25-57
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-246	±	4278 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: AR Flynn

WCX-1184 (2-52) K-25 NRC

~~Hill~~ ~~[illegible]~~ File

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-~~B~~-114,-RC
Issued 11-14-57
Type of Sample Water

TO: Mr. Becher

Date 11-6-57

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-245	±	9789±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: P. R. Kuehn
for A. R. Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 11-6-57
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-244	±	17723 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: AR Flynn

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 10-22-57
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-243	±	10204 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

[illegible] GH
R Leyne
File

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004B 114 RC.
Issued 10-15-57
Type of Sample Water

TO: Mr. Becher.

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HpK-25-242	±	10,047 ±	per 100 ml Water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

OCT 16

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

Hot Lyr Flynn File

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004 B-114 Re

Issued 10-4-57

Type of Sample Water

Date 1/23/57

TO: Mr. Becker

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
NP-K25-241	±	11,639	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

Shaw-Dr
~~Flynn~~
File

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114
Issued 9-19-57
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-240	±	10,396±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

Kit 11

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: AR Flynn

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114, RC
Issued 9-6-57
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-239	±	7076 ±	Per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A. C. Flynn

WCX-1184 (2-52) K-25 NRC

~~File~~ RH ~~Engr~~ File

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114
Issued 8-27-57
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-238	±	5,895 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

Aug 16 1957

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: AL Flynn

WCX-1184 (2-52) K-25 NRC

Hill Bldg
Rogers
File

RADIOACTIVITY ANALYSIS REPORT

AUG 15

File No. K-1004-B-114
Issued 8-14-57
Type of Sample Water

TO: Mr. Bircher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-237	±	14,463 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A. Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. K-1004-B-114
Issued 7-31-57
Type of Sample Water

TO: Mr. Becher

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-236	±	15,036 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A. R. Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 7-26-57
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-235	±	17040 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

RECEIVED JUL 29 '57

-40-

APPROVED: A.R. Flynn

WCX-1184 (2-52) K-25 NRC

GH
Rlayne
File

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 7-9-57
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RC

a te
1/28/57

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-234	±	11895 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: P. R. Kuehn
for A. C. Flynn

WCX-1184 (2-52) K-25 NRC

Eugene Fitz

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 6-12-57
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RC

Date 5/29/57

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-232	±	15,208 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

RECEIVED JUN 13 1957

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A E Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 6-7-56
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

May 24 '56

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-206	±	7445 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: AR Flynn

WCX-1184 (2-52) K-25 NRC

Heil GH
~~Flynn~~
by File

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 5-24-57
Type of Sample ~~XXXXX~~ Water

TO: Mr. Becher; K-1004-B-114, RC

Date 5-15-57

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-231	±	9761 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A. R. Flynn

WCX-1184 (2-52) K-25 NRC

~~Hill~~ ~~Express~~ File

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 6-21-57
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RG

6/11/57

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-233	±	16352 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A L Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 5-10-57
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-230	±	9190 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 4-24-57
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-229	±	8004 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APR 26 1957

-47

APPROVED: A L Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912 9

Issued 4-10-57

Type of Sample Water

TO: Mr. Becker; K1004 C-114 CC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
NP-K-25-228	±	8837 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: ____________________

WCX-1184 (2-52) K-25 NRC

Hic Istlie
Rhyne
File

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 3-14-57
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-227	±	7030 ±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

Safe
Nell

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

20

APPROVED: A. R. Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 3-12-57
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-226	±	14,147±	per 100 ml water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

Hill Pt
Hyne
File

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 2-26-57
Type of Sample Water

TO: Mr. Becher: K-1004-B-114, RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-223	±	5606 ±	
HPK-25-224	±	4093 ±	
HPK-25-225	±	7702 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A C Flynn -51-

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912 J
Issued 1-25-57
Type of Sample Water

TO: Mr Becher; K-1004B-114, RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-222	±	6871	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: AR Flynn

-52-

WCX-1184 (2-52) K-25 NKC

Hall 9H
Rhyne
File

RADIOACTIVITY ANALYSIS REPORT

File No. 12J
Issued 1-15-57
Type of Sample [illegible]ter

TO: Mr. Becher; K-1004-B-114, [illegible]

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-221	±	14,275 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

Jan. 4 1957

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: AC Flynn

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 1-3-57
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, NC

2/18/56

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-220	±	12,115±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 12-14-56
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RC

Date Dec 3 1956

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-219	±	12,179±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

1 ~~Hill~~
2 ~~Flynn~~
3 – file

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 12-7-56
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-218	±	16,552±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

-56-

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 11-9-56
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-217	±	18,243 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: AC Flynn

WCX-1184 (2-52) K-25 NRC

Hall SH
Thyne
Dill

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 10-23-56
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, AC

Date 10/18/56

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-216	±	10,800±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

~~Hill~~ ~~Flynn~~
File

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 10-16-56
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RC

Date Oct 9, 1956

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-215	±	12,925±	Per 100 ml. of water.
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: Al Flynn

WCX-1184 (2-52) K-25 NRC

~~Hee GH~~ ~~Flynn~~ File

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 10-5-56
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RC

Sept 27 1956

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-214	±	13,989 ±	Per 100 ml. of water.
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

RECEIVED OCT 11 1956 SAFETY DEPARTMENT

APPROVED: A C Flynn

-60-

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912U
Issued 9-20-56
Type of Sample Water

TO: Mr. Becher; K-1004-B-11[illegible], RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
9/13/56 HPK-25-213	±	12,902±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: AR Flynn

RADIOACTIVITY ANALYSIS REPORT

File No. 912U
Issued 9-7-56
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-212	±	13027 ±	Per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A C Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 8-17-56
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-211	±	8384 ±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: AL Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 8-10-56
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, AC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-210	±	8386 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: AC Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 7-20-56
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
7-12-56 HPK-25-209	±	6733 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

Sheet 1 of 1
Right
File

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 7-11-56
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RC

Date -27

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-208	±	6733 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 9125
Issued 7-6-56
Type of Sample Water

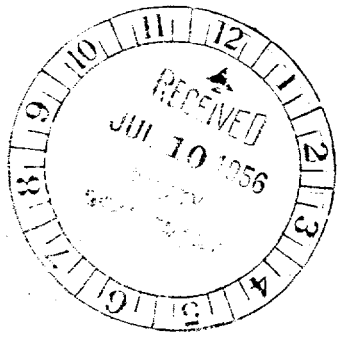
TO: Mr. Decker; K-1004-B-114, [illegible]

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPM-25-207	±	7354 ±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.



APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

File

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 6-1-56
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-205	±	7698 ±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: Al Flynn

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 5-16-56
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-204	±	5684 ±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A. C. Flynn

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 5-1-56
Type of Sample Water

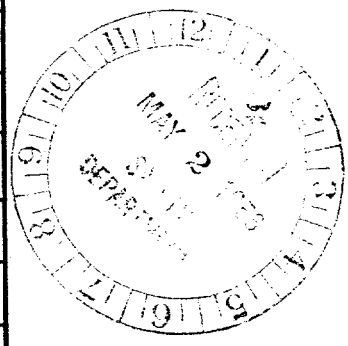
TO: Mr. Becher; K-1004-B-114 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-203	±	4432 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.



APPROVED: A. R. Flynn

WCX-1184 (2-52) K-25 NKC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 4-18-56
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-202	±	4967 ±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: AC Flynn

WCX-1184 (2-52) K-25 NkC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 4-5-56
Type of Sample: Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-201	±	11,837±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: Al Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 3-23-56
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Date 3-16-56

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-200	±	6939 ±	per 100 ml water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: AR Flynn

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 3-13-56
Type of Sample Water

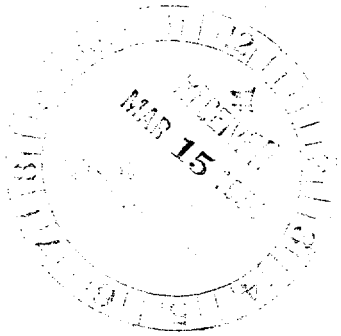
TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-199	±	4813±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.



APPROVED: A. L. Flynn

WCX-1184 (2-52) K-25 NRC

~~[illegible]~~ ~~[illegible]~~
~~[illegible]~~
File

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 2-28-56
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-198	±	6517 ±	Per 100 ml water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 2-7-56
Type of Sample Health Survey Filter Samples

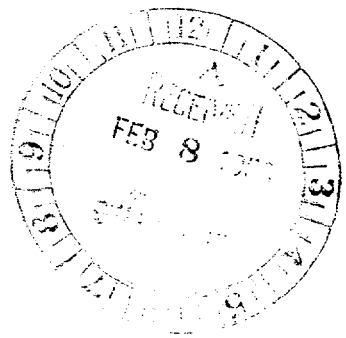
TO: Mr. Becher; K-1004-B-214, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-196	±	10,550±	per 100 ml water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.



APPROVED: A. L. Flynn

WCX-1184 (2-52) K-25 NKC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 1-27-56
Type of Sample Water

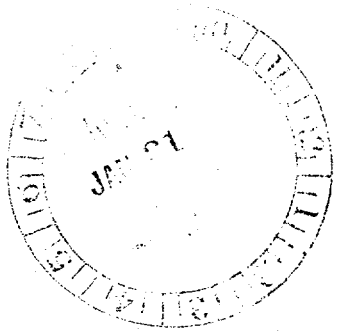
TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-195	±	13,995 ±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.



APPROVED: A L Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 11-29-55
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-190	±	24,429±	per 100 ml water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A L Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 11-18-55
Type of Sample Water

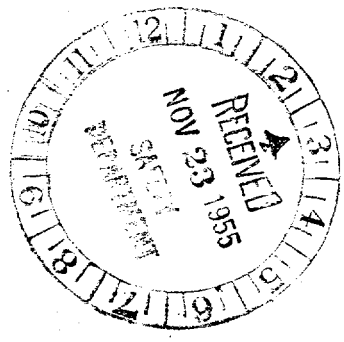
TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-189	±	14,938 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.



APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

1 - Hill, JDN
~~2 - [illegible]~~
3 - file

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 11-1-55
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-187	±	23,614±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 10-25-55
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-186	±	19,627±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

~~E... 1 Hill~~
~~2 Rhyne~~
3 - File

RADIOACTIVITY ANALYSIS REPORT

File No. 912 J
Issued 10-17-55
Type of Sample Water

TO Mr Becker, K-1004 B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
10/3/55 HPK-25-185	±	8716	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

9 10 11 12

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 9-29-55
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-184	±	10,067±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A L Flynn -83-

WCX-1184 (2-52) K-25 NKC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 9-15-55
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-183	±	11,925±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 9-1-55
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
24 HPK-25-182	±	8013 ±	per 100 ml water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 12J
Issued 6-23-55
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-176	±	7243 ±	Per 100 ml water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: [signature]

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 6-17-55
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-175	±	9346 ±	Per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: R. Rider

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 5-16-55
Type of Sample Water

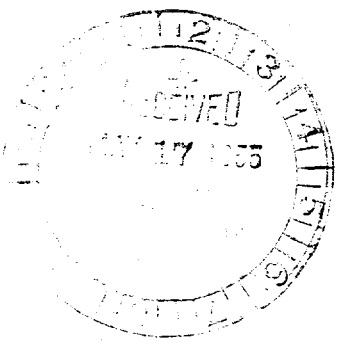
TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HBK-25-172	±	6,804 ±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.



APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

~~Hec~~ 9Ad
~~Rep~~ HR
✓ File

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 5-4-55
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
5-2-55 HPK-171	±	10,798	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 4-25-55
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-170	±	11813 ±	per 100 ml water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A B Flynn

WCX-1184 (2-52) K-25 NkC

~~R Flynn~~
File

RADIOACTIVITY ANALYSIS REPORT

File No. 9122
Issued 4-19-55
Type of Sample Water

TO Dr. Becker, K1004B-114 K-25 E

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
NPK-25-169	±	10,233	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn -91-

WCX-1184 (2-52) K-25 NKC

Rhyne

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 4-7-55
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
-25-168	±	12,717±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn -92-

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 3-18-55
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-167	±	10,657 ±	per 100 ml water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 3-10-55
Type of Sample Water

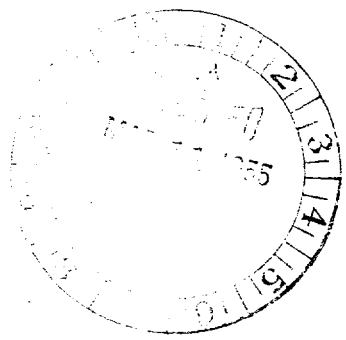
TO: Mr. Becher; K-1004-B-114, K-25 EC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-166	±	7431 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.



APPROVED: A R Flynn -94

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 2-23-55
Type of Sample Water

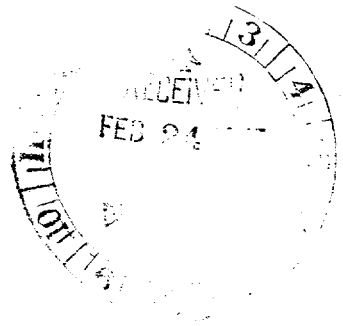
TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-165	±	9368 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.



APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

912J - Hot Files

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 2-11-55
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-164	±	8993 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A C Flynn -96-

WCX-1184 (2-52) K-25 NRC

344 Hill Info

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 1-31-55
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HFK-25-163	±	12,350 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn -99-

WCX-1184 (2-52) K-25 NRC

B441

RADIOACTIVITY ANALYSIS REPORT

File No. 212J
Issued 1-19-55
Type of Sample Water

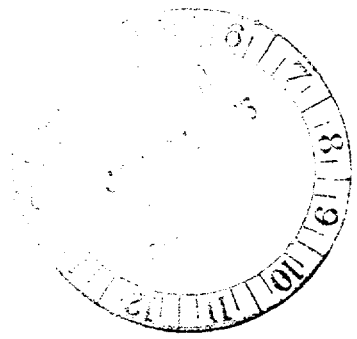
TO: Mr. Decher; K-1004-B-114, K-25

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-162	±	8,822 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.



APPROVED: A. R. Flynn

WCX-1184 (2-52) K-25 NKC

(2) Files

RADIOACTIVITY ANALYSIS REPORT

RECEIVED
JAN 19 1956
SAFETY DEPARTMENT

File No. 912U
Issued 1-17-56
Type of Sample Health Survey Filter Samples

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HP-18	9 ± ✓	±	
HP-19	5 ± ✓	±	
HP-20	5 ± ✓	±	
HP-21	2 ± ✓	±	
HP-22	4 ± ✓	±	
✓ HP-23	12 ±	±	
✓ HP-24	9 ±	±	
✓ HP-25	4 ±	±	
HP-46	75552 ±	±	
HP-47	10561 ±	±	
HP-48	274 ±	±	
HP-49	214 ±	±	
HP-50	46	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

RADIOACTIVITY ANALYSIS REPORT

File No. 212J
Issued 1-11-55
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-161	±	9371±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

HPK-

WHITE Oak Lake Samples.

28 ml

Sent ... 114 Abec @ ...

HPK25 #	Date	β/min/33ml	TOT	AV.				
" 61	7-25-52	2.5-2.4	4.9	2.45	- 2.45	2.45		
" 62	4-8-52	5.1-5.4	10.5	5.25				
" 63	4-15-52	5.1-2.7	7.8	3.9				
" 64	4-23-52	4.7-3.5	8.2	4.1				
" 65	4-30-52	7.4-7.9	15.3	7.65	20.90	5.22		
" 66	5-12-52	9.5-9.2	18.7	9.35				
" 67	5-16-52	11-12	23.0	16.5				
" 68	5-21-52	8.7-9.6	18.3	9.15				
" 69	5-28-52	17.1-18.4	35.5	17.75	52.75	13.18		
" 70	6-4-52	11.5-10.8	22.3	11.15				
" 71	6-12-52	7.6-8.7	16.3	8.15				
" 72	6-15-52	7.6-7.1	14.7	7.35				
" 73	6-25-52	6.0. 5.3	11.3	5.65	32.30	8.07		
" 74	7-8-52	5.5-4.6	10.1	5.05				
" 75	7-14-52	6.6x7.9	14.5	7.25				
" 76	7-18-52	9.9-8.8	18.7	9.35				
" 77	7-23-52	6.9 6.3	13.2	6.6	28.25	7.06		
" 78	8-1-52	11.9-12.0	23.9	11.95				
" 79	8-13-52	17.3-14.2	31.5	15.75				
" 80	8-19-52	10.2-9.9	20.1	10.05				
" 81	8-28-52	29.4-32.5	61.9	30.95	68.70	17.17		
" 82	9-8-52	28.2-25.9	54.1	27.05				
" 83	9-15-52	21.6-20.7	42.3	21.15				
" 84	9-25-52	16.5-16.1	32.6	16.30	64.50	21.50		
" 85	10-3-52	14.7-13.7		posted to				
" 86	10-10-52	11.8-9.73		new sheets				
" 87	10-16-52	12.2-10.1		cuts				
" 88	10-31-52	17.5-16.8						
" 89	11-6-52	26.7-31.0						
90	11-14-52	37.1-29.7						
91	11-28-52	5.5-4.8						-101
92	12-5-52	15.8-13.3	LIQUID COUNTING 28ml sample		Evaporated 100ml sample			16,021 c/m
93	12-12-52	37.0-38.0	"	" "	"			31,753 c/m
94	12-15-52	37-34	"	" "	"			

H.P.K.
Samples

HPK-25- Mailed	SAMPLE DATE	β c/m/33 ml	
— 1	8/2/50	5.00, 2.33,	
— 2	8/7/50	1.13, 1.27	
— 3	8/21/50	3.00, 2.00	
8/25/50 4	8/28/50	3.33, 4.00	
9/1/50-5	9/4/50	~~2.20~~ 5.00, 4.33	
9/8/50-6	9/11/50	2.33, 1.67,	1.00, 2.20, 3.00
9/15/50-7	9/18/50	5.00, 4.00	
10/5/50 - 8	10/9/50	~~2.80 2.70~~ 2.67, 5.00	
10/13/50-9	10/16/50	2.33, 2.00	
10/26/50-10			
11/2/50 - 11			5.0 / 5.0
11/24/50 - 12	11/27/50	4.8, 3.3	4.8 / 3.3
12/1/50- 13	12/4/50	0.43, 0.73	0.43 / 0.73
1/4/51- 14	1/8/51	0.50, 0.50	0.50 / 0.50
1/11/51- 15	1/15/51	0.43, 0.63	8 / 17.26 / 2.16
1/18/51- 16	1/22/51	0.7, 0.5	
1/26/51-17	1/29/51	1.1, 1.3	
2/1/51-18	2/6/51	-0.17, 0.26	
2/7/51/19	2/12/51	0 - 0	
2/14/51/20	2/19/51	2.8 - 1.4	
2/21/51/21	2/26/51	0.6 -0.4	
3/1/51/22	3/5/51	0.7	
3/7/51/23	3/12/51	0.45	
3/14/51/24	3/19/51	9.6 - 12.0	
3/21/51/25	4/2/51	1.9 - 00	
3/28/51/26	4/30/51	1.3 - 1.4	
4/4/51/27	4/7/51	1.0 0.7	
4/11/51/28	4/18/51	1.3 -0.1	
4/19/51 29	4/25/51	0 - 0	
4/25/51 30	5/1/51	3.7 - 1.4	
5/2/51 31	5/7-51	2.6 - 3.0	
5/9 32	7-12-51	0.9 1.9	
5/31/34	6-12-51	3.93 - 3.86	
6-13/35		~~3.93 3.86~~ 2.3 1.9	
6-20-36	6-20-51	2.4 - 3.3	
6-21-37	6-28-51	8.2 9.0	

Combined and
Used in cal. of H_2O monitor 1/11/51
Ind. Hyg. to run like 24-D after filtering
Sple. No. HPK-2X = 1626 d/m/100 ml.
1 week = 1695
2 weeks = 1585

Date Sent	Sapl Date	β c/min/100 ml		
6-28-51-38	7-2-51	44 - 43	12-21-51	HPK59-22
7-11-51-39	7-16-51	3.1 - 2.8	1-2-52	HPK-60 — 3-
7-18-51-40	7-25-50	1.8 - 0.4	1-10-52	HPK-61
7-27-51 41	8-1-51	3.6 - 2.7		
8-1-51 42	8-6-51	4.7 - 3.1		
8-8-51-43	8-15-51	3.2 3.0		
8-16-51-44	8-27-51	5.5 - 4.8		
8-28-51-45	9-6-51	6.5 5.8		
9-6-51-46	9-13-51	7.0 - 7.0		
9-14-51-47	9-19-51	4.3 - 3.6		
9-24-51 48	10-1-51	4.3 - 6.1		
10-3-51-49	10-10-51	6.0 - 4.5		
10-10-51-50	10-17-51	6.8 - 7.8		
10-19-51-51	10-23-51	5.9 - 5.5		
10-24-51-52	10-30-51	2.6 - 2.5		
11-1-51-53	11-7-51	3.4 - 2.0		
11-14-51 54	11-21-51	2.6 - 2.8		
11-21-51-55	11-27-51	4.1 - 6.2		
11-29-51-56	12-5-51	3.0 3.03		-102-
12-5-51-57	12-12-51	3.2 - 3.9		
12-12-51-58	12-21-51	3.0 0.0		

~~File~~ 912J
File

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 1-4-55
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-160	±	17,173 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

RADIOACTIVITY ANALYSIS REPORT

File No. 9123
Issued 12-20-54
Type of Sample Water

TO: Mr. Becher: K-1004-B-114, K-25 [illegible]

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HEK-25-159	±	52,026±	Per 100 ml water.
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

-104-

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 12-10-54
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-158	±	8,889±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 11-26-54
Type of Sample Water

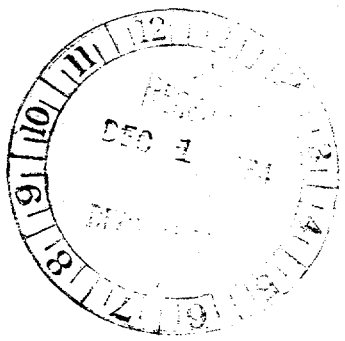
TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-157	±	9694 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.



APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 11-23-54
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-156	±	10,684±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

912J

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 8-27-54
Type of Sample Water
~~XXXXXXXXX~~

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-150	±	18,362	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 9-3-54
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-151	±	12,091±	per 100 ml water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 9-17-54
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-152	±	16,966±	per 100 ml water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A. R. Flynn

WCX-1184 (2-52) K-25 NRC

1201

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 9-29-54
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-153	±	14,684±	Per 100 ml
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: AR

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 10-14-54
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-154	±	11,338±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A C Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 10-28-54
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-155	±	11,292±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A C Flynn

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 8-13-54
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-149	±	14,976±	per 100 ml water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 7-26-54
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-147	±	22674 ±	per 100 ml water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn -115-

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 7-20-54
Type of Sample Water

TO: Mr. A. F. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-146	±	22701±	per 100 ml water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

Bath (Epic)

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 7-2-54
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-145	±	19,604	Per 100 ml
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn -117-

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 8-6-54
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-148	±	21,181 ±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 5-17-54
Type of Sample Water

TO: Mr. Becher; K-1005 Files, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-141	±	25,403 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

54-1

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 6-18-54
Type of Sample Water

TO: Mr. Becher, K-1004- B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-144	±	19,585±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A P Flynn

WCX-1184 (2-52) K-25 NRC

912J

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 6-9-54
Type of Sample Water

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-143	±	25,418±	Per 100 ml. Water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

-121-

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 5-27-54
Type of Sample Water Sample

TO: Mr. Becher; K-1004-B-114, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-142	±	28,393	per 100 ml.
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A. R. Flynn

WCX-1184 (2-52) K-25 NRC

912J

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 5-7-54
Type of Sample Water

TO: Mr. Becher; K-1005 Files, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-140	±	40,093	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

912J

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 4-28-54
Type of Sample Water

TO: Mr. Becher; K-1005 Files, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-139	±	7581 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A. R. Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 4/19/54
Type of Sample Water

TO: Mr. Becher; K-1005 Files, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK 138	±	5624±	per 100 ml water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

3811

RADIOACTIVITY ANALYSIS REPORT

File No. 912J
Issued 4/3/54
Type of Sample Water Sample

TO: Mr. Becher; K-1005 Files K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-137	±	3827 ±	per 100 ml.
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn -126-

WCX-1184 (2-52) K-25 NRC

912 ✓

RADIOACTIVITY ANALYSIS REPORT

File No. 912 J
Issued 3/18/54
Type of Sample Water

TO: Mr. Becher; K-1005 File, K-25RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-135	7050 ±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

-127-

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 9127
Issued 3-30-54
Type of Sample Water

TO: Mr. Becker; K-1005 Files K-25 Re.

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-136	±	9911 ±	per 100 ml water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

-128-

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912 J
Issued 4-15-52
Type of Sample Water Sample

TO: Mr Becher, central files, K-25 P.O.

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK25-107	±	13,559	Run on ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: Frank E. Voss -129-

RADIOACTIVITY ANALYSIS REPORT

File No. 912 J
Issued 3/16/53
Type of Sample Water

TO: Mr. Becher; Central Files, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-101	±	16,617 ±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

MAR 17 1953

APPROVED: Frank S. Voss -130-

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912 J
Issued 3/26/53
Type of Sample Water

TO: Mr. Becher; Central Files, K-25 RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-102	±	26857±	Per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

MAR 27 1953

APPROVED: Frank S. Voss

RADIOACTIVITY ANALYSIS REPORT

File No. 912 J
Issued 12/1/53
Type of Sample Water Samples

TO: Mr. Becher; Central Files, K-25RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-125	±	14,838 ±	per 100 ml.
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

Special Analysis for Ba Monit Calibration Solution

RADIOACTIVITY ANALYSIS REPORT

File No. 912 J
Issued 3/12/54
Type of Sample Water Sample

TO: Mr. Becker; K-1005 File; K-25RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
W.O.L.I.	±	4002 ±	per 100 ml.
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

3871.

RADIOACTIVITY ANALYSIS REPORT

File No. 912 J
Issued 3/8/54
Type of Sample Water

TO: Mr. Becher; K-1005 File, K-25RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-134	±	4147 ±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn -134-

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912 J
Issued 2/26/54
Type of Sample Water

TO: Mr. Becher; E-1005 File, K-25RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-133	±	9768 ±	per 100 mk. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A K Flynn

WCX-1184 (2-52) K-25 NRC

BHK

RADIOACTIVITY ANALYSIS REPORT

File No. 912 J
Issued 2/18/54
Type of Sample Water

TO: Mr. Becher; Central Files, K-25RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-132	±	11626 ±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A. R. Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912 J
Issued 2/12/54
Type of Sample Water

TO: Mr. Becher; Central Files, K-25RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-131	±	7270 ±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912 J
Issued 2/3/54
Type of Sample Water Sample

TO: Mr. Becher; Central Files, K-25RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-130	±	4644 ±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn

WCX-1184 (2-52) K-25 NRC

RADIOACTIVITY ANALYSIS REPORT

File No. 912 J
Issued 1/21/54
Type of Sample Water

TO: Mr. Becher; Central Files, K-25RC

Sample Number	Alpha Cts/min.	Beta Cts/min.	Remarks
HPK-25-129	±	10,059 ±	per 100 ml. water
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	
	±	±	

1. The limit of error at the 95% certainty level has been estimated from the precision of control samples.

2. The alpha counting rates have been corrected to 50% geometry by comparison of results obtained by counting unaltered uranium with the published alpha specific activity.

3. The beta counting rates have been corrected to 100% geometry by comparison of results obtained by counting unaltered uranium with the published specific beta activity of normal uranium.

APPROVED: A R Flynn